

Purchase Order Receipt Listing

Monday, July 10, 2017 1:05:44 PM

All amounts are calculated in domestic currency.

Page 1 of 3

All Vendors PO ID PO36886 Receipt Dates from 7/7/2017 to 7/7/2017 All Line Item Types
All Item ID/GL/WOs All Rec. Employees All Currencies
Grouped by Vendor ID

Purchase Order ID/ Curr Type	Line Nbr/ Insp	Project ID	Reference/ Description/ Cert Std	PO U/M/ Stock U/M	Required Date Required Qty	Recv Date/ Date/	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MIRB Qty/ MIRB Reject Qty	Book Amt
Vendor ID \ Vendor Name VC-CAM002 Acier Ouellette Inc.											
PO36886	1		M6061T6B0.750X06. f	DAS	7/6/2017	7/7/2017	20.0000	\$12.71	0.0000	0	\$254.19
CAD	No		6061T6 BAR .750 X f 9		20.0000	PL0U01		\$254.19	0.0000	0	
			6.00	9.89							
			m137980								
	2		M6061T6B0.750X01. f		7/6/2017	7/7/2017	60.0000	\$2.66	0.0000	0	\$159.76
	No		500								
			6061-T6 Bar .750 X f		60.0000	PL0U01		\$159.76	0.0000	0	
			1.50								
			m137980								
	3		M6061T6B0.750X08. f	DAS	7/6/2017	7/7/2017	12.0000	\$14.18	0.0000	0	\$170.19
	No		000								
			6061-T6 BAR .750" f	9	12.0000	PL0U01		\$170.19	0.0000	0	
			X 8.00"	9.89							
			m137980								
	4		M6061T6B1.000X02. f	DAS	7/6/2017	7/7/2017	20.0000	\$4.73	0.0000	0	\$94.68
	No		000								
			6061-T6 Bar 1.00 x f	9	20.0000	PL0U01		\$94.68	0.0000	0	
			2.00	9.89							
			m137980								
	5		M6061T6B1.000X04. f	DAS	7/6/2017	7/7/2017	20.0000	\$10.61	0.0000	0	\$212.28
	No		000								
			6061-T6 Bar 1.00 x f	14	20.0000	PL0U01		\$212.28	0.0000	0	
			4.00	9.89							
			m137980								
	6		M6061T6B1.000X06. f		7/6/2017	7/7/2017	24.0000	\$14.94	0.0000	0	\$358.51
	No		000								
			6061T6 BAR 1.00 X f		24.0000	PL0U01		\$358.51	0.0000	0	
			6.00								
			m137980								

Purchase Order ID/ Curt Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date	Recv Date/ Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
---------------------------------	-----------------------	------------	--	-----------------------	---------------	-------------------	----------------------	------------------------------	--	----------------------------	----------

Vendor ID/Vendor Name VC-CAM002 Acier Queltette Inc.

PO36886 8 M6061T6B1.500X01. f 250 DAS 7/6/2017 7/7/2017 12.0000 \$4.92 0.0000 0 \$59.07

CAD No 6061-T6 Bar 1.50 x f 1.25 14 12.0000 PLOU01 0.0000 \$59.07 0

m137980 9 M6061T6B4.500X4.5 f 00 DAS 7/6/2017 7/7/2017 4.0000 \$67.42 0.0000 0 \$269.67

No 6061-T6 Aluminum Bar 4.500" X 4.500" f 14 4.0000 PLOU01 0.0000 \$269.67 0

m137980 10 M6061T6S.040 f 14 7/6/2017 7/7/2017 64.0000 \$5.86 0.0000 0 \$374.84

No 6061-T6 .040 Sheet sf 64.0000 PLOU01 0.0000 \$374.84 0

m137980 11 M6061T6S.125 f 14 7/6/2017 7/7/2017 32.0000 \$4.97 0.0000 0 \$159.18

No 6061-T6 .125 Sheet sf 32.0000 PLOU01 0.0000 \$159.18 0

m137980 12 M2024T3S.080 sf 48 7/6/2017 7/7/2017 48.0000 \$4.98 0.0000 0 \$239.16

No 2024-T3 .080 sheet sf 48 48.0000 PLOU01 0.0000 \$239.16 0

m137980 13 M303R0.750 f 14 7/6/2017 7/7/2017 24.0000 \$4.05 0.0000 0 \$97.23

No 303 Round Bar 0.750 f 14 24.0000 PLOU01 0.0000 \$97.23 0

m137980 14 M304S18GA sf 5 7/6/2017 7/7/2017 64.0000 \$4.13 0.0000 0 \$264.10

No 304/316 .050 Sheet sf 5 64.0000 PLOU01 0.0000 \$264.10 0

m137980 15 M304S20GA sf 5 7/6/2017 7/7/2017 64.0000 \$3.01 0.0000 0 \$192.76

No 304/316 .040 Sheet sf 5 64.0000 PLOU01 0.0000 \$192.76 0

m137980 16 M6061T6R0.375 f 14 7/6/2017 7/7/2017 20.0000 \$0.30 0.0000 0 \$6.05

No 6061-T6 Round Bar f 14 20.0000 PLOU01 0.0000 \$6.05 0

.375" 3.89

m137980 17 M6061T6B2.000X03. f 9 7/6/2017 7/7/2017 12.0000 \$11.06 0.0000 0 \$132.71

No 500 6061-T6 Bar 2.00 x f 9 12.0000 PLOU01 0.0000 \$132.71 0

3.50 9.88

m137980

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Purchase Order Receipt Listing

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Vendor ID Vendor Name		VC-CAM002	Acier Oueltette Inc.								
PO36886	18		71401-45		7/6/2017	7/7/2017	1.0000				
CAD	No		PROCUREMENT QUALITY CLAUSES m137980		1.0000	PL0U01		\$0.00	0.0000	0	\$0.00

Total Received Quantity: 501.0000
 Total Qty to Inspect (PO U/M): 0.0000
 Total Reject Quantity: 0.0000
 Total Receipt Value: \$3,044.36
 Total Balance Due Quantity: 0.0000



DELIVERY - USINE

CO00038492

ACIER OUELLETTE INC.

935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Customer N° CLI0001056

Date 2017/06/29

Delivery date **2017/07/06**

Your order N° PO36886

Processed by Eric Kaehlert

Salesman

Carrier OUELLETTE VALLEYFIELD

Credit Terme Net 30 Days

Page 1

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Instruction F-M

Delivery Route 5

Instruction	Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only		
					CMD	EXP	B/O	IN	I	S C
1	FLAT ALU 3/4 X 6 6061-T6 (20) FAL-346-20 1 X 20' HT# <u>SXD160817</u> DAS 9-89	105.74	20.00	PI_\$CLB						
2	FLAT ALU 3/4 X 1 1/2 6061-T6 (20) FAL-34112-20 3 X 20' HT# <u>68549</u> DAS 9-89	81.00	60.00	PI_\$CLB						
3	FLAT ALU 3/4 X 8 6061-T6 (12) FAL-348-12 1 X 12' HT# <u>383822</u> DAS 9-89	84.96	12.00	PI_\$CLB						

NIR : R-109516-6

Next Page...



DELIVERY - USINE

CO00038492

ACIER OUELLETTE INC.

935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Customer N° CLI0001056

Date 2017/06/29

Delivery date 2017/07/06

Your order N° PO36886

Processed by Eric Kaehlert

Salesman

Carrier OUELLETTE VALLEYFIELD

Credit Terme Net 30 Days

Page 2

Billed to

DART AEROSPACE LTD

1270 , ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5

Instruction F-M

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only		
				CMD	EXP	B/O	IN	I	S C
4 FLAT ALU 1 X 2 6061-T6 (20) FAL-12-20 1 X 20' HT#67956 DAS 2475 9 9-89	48.00	20.00	PI_\$CLB						
5 FLAT ALU 1 X 4 6061-T6 (20) FAL-14-20 1 X 20' HT#385906 DAS 8133 14 9-89	96.00	20.00	PI_\$CLB						
6 FLAT ALU 1 X 6 6061-T6 (12) FAL-16-12 2 X 12' HT#36576	169.18	24.00	PI_\$CLB						

NIR : R-109516-6

Next Page...



DELIVERY - USINE

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935, Boul. du Havre
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Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Customer N°

CLI0001056

Date

2017/06/29

Delivery date

2017/07/06

Your order N°

PO36886

Processed by

Eric Kaehlert

Salesman

Carrier

OUELLETTE VALLEYFIELD

Credit Terme

Net 30 Days

Page

3

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Instruction	F-M	Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only		
						CMD	EXP	B/O	IN	I	S C
7		FLAT ALU 1 X 12 6061-T6 (12) FAL-112-12 2436 1 X 12' HT#105574	169.34	12.00	PI_\$CLB						
8		FLAT ALU 1 1/4 X 1 1/2 6061-T6 (12) FAL-114112-12 2451 DAS 1 X 12' 14 HT#17025431A 9-89	26.44	12.00	PI_\$CLB						
9		ALUMINIUM 6061-T6511 4-1/2" SQUARE N 1 X 48" LG DAS HT#107012 9 9-89	1.00	1.00	UN						

NIR : R-109516-6

Next Page...



DELIVERY - USINE

CO00038492

ACIER OUELLETTE INC.

935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
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Customer N° CLI0001056

Date 2017/06/29

Delivery date **2017/07/06**

Your order N° PO36886

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Salesman

Carrier OUELLETTE VALLEYFIELD

Credit Terme Net 30 Days

Page 4

Billed to

DART AEROSPACE LTD

1270 , ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Instruction F-M

Delivery Route 5

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only			
				CMD	EXP	B/O	IN	I	S	C
10 ALU SHEET .040 (18G) 6061-T6 (4 X 8) FEAL-040486061 3125 2 X 4' X 8' HT#T114421	36.03	64.00	PI2_\$CLB							
11 ALU SHEET 1/8 6061-T6 (4 X 8) FEAL-18486061 4256 1 X 4' X 8' HT#GJNH1612-028	56.45	32.00	PI2_\$CLB							
12 ALU SHEET .081 (12G) 2024-T3 (4 X 12) FEAL-0814122024 3192 1 X 4' X 12' BARE HT#300	54.77	48.00	PI2_\$CLB							

NIR : R-109516-6

Next Page...



DELIVERY - USINE

CO00038492

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935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Customer N° CLJ0001056

Date 2017/06/29

Delivery date **2017/07/06**

Your order N° PO36886

Processed by Eric Kaehlert

Salesman

Carrier OUELLETTE VALLEYFIELD

Credit Terme Net 30 Days

Page 5

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Instruction F-M

Delivery Route 5

Instruction	Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only		
					CMD	EXP	B/O	IN	I	S C
13	ROUND SS 3/4 303 (12R) RSS-34303-12 2 x 12' HT#W4B3 5260 DAS 14 9-89	36.05	24.00	PI_\$CLB						
14	SHEET SS 18G SS304-2B (4 X 8) FESS-18G483042B 2 X 4' X 8' HT#W4B3 3425 DAS 5 0-89	134.40	64.00	PI2_\$CLB						
15	SHEET SS 20G SS304-2B (4 X 8) FESS-20G483042B 2 X 4' X 8' HT#160612C11 3430	100.48	64.00	PI2_\$CLB						

NIR : R-109516-6

Next Page...

DELIVERY - USINE

ACIER OUELLETTE INC.

935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

CLI0001056

2017/06/29

2017/07/06

PO36886

Eric Kaehlert

OUELLETTE VALLEYFIELD

Net 30 Days

6

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5

Instruction F-M

Instruction	Product Description	Weight	Qty	U/M	PCS NB		Internal Use Only			
					CMD	EXP	IN	I	S	C
16	ROUND ALU 3/8 6061-T6 (20) RAL-38-20 1 X 20' DAS 5159 14 9-89 HT#68219	2.64	20.00	PI_\$CLB						
17	FLAT-ALU 2 X 3 1/2 6061-T6 RANDOM NS FAL-2312-V 1 X 12' 8260 HT#001M170213B	50.28	12.00	PI_\$CLB						

Conditions :

All sold and delivered materials remain the property of "Acier Ouellette Inc" until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acier Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acier Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.

Total Weight (Lbs) : 1 251.76

NIR : R-109516-6

Prepared By :

Verified By :

Time

Y	M	D
---	---	---

Total (\$CAD)

Customer's Signature

Date

**ACIER OUELLETTE INC.**

935, Boul. du H vre . .
Salaberry de Valleyfield (Qu bec) J6S 5L1
T l.: 450-377-4248 M l: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 M l: 514-336-4246 Ext.: 866-456-4242

Invoice

FC00040419

Sold to

DART AEROSPACE LTD

1270 , ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Customer N 

CLI0001056

Date

2017/07/10

Your order N 

PO36886

Processed by

France

Salesman

ERIC

Carrier

OUELLETTE VALLEYFIELD

Credit Term

Net 30 Days

Order N 

CO00038492

Page

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Shipped to

, Ontario,

Att : A VALIDER

Product N� and description	Weight	Qty	U/M	Qty	U/M	Price	Pcs Nb	Price	Amount
HT#36576									
FLAT ALU 1 X 12 6061-T6 (12) FAL-112-12 2436 1 X 12'	0.00	0.00	PI_\$CLB	0.00	UN	0.00	0.00	0.000	0.00
HT#105574									
FLAT ALU 1 1/4 X 1 1/2 6061-T6 (12) FAL-114112-12 2451 1 X 12'	26.43	12.00	PI_\$CLB	1.00	UN	76.65	0.00	0.000	76.65
HT#17025431A									
ALUMINIUM 6061-T6S11 4-1/2" SQUARE N	0.00	1.00	UN	1.00	UN	349.95	0.00	0.000	349.95
1 X 48" LG									
HT#107012									
ALU SHEET .040 (18G) 6061-T6 (4 X 8) FEAL-040486061 3125 2 X 4' X 8'	36.03	64.00	PI2_\$CLB	2.00	UN	243.22	0.00	0.000	486.43
HT#T114421									
ALU SHEET 1/8 6061-T6 (4 X 8) FEAL-18486061 4256 1 X 4' X 8'	56.44	32.00	PI2_\$CLB	1.00	UN	206.57	0.00	0.000	206.57
HT#01/0068262/5									
ALU SHEET .081 (12G) 2024-T3 (4 X 12) FEAL-0814122024 3192 1 X 4' X 12' BARE	54.76	48.00	PI2_\$CLB	1.00	UN	465.53	0.00	0.000	465.53

Product N° and description	Weight	Qty U/M	Qty U/M	Price	Pcs Nb	Price	Amount
HT#300							
ROUND SS 3/4 303 (12R) RSS-34303-12 5760 2 x 12' 5"	37.30	24.84 PI_\$CLB	24.84 PI	5.26	0.00	0.000	130.58
HT#W4B3							
SHEET SS 18G SS304-2B (4 X 8) FESS-18G483042B 3425 2 X 4' X 8'	134.40	64.00 PI2_\$CLB	2.00 UN	171.36	0.00	0.000	342.72
HT#0L4V							
SHEET SS 20G SS304-2B (4 X 8) FESS-20G483042B 3430 2 X 4' X 8'	100.48	64.00 PI2_\$CLB	2.00 UN	125.07	0.00	0.000	250.14
HT# 222X DAS 5 9-89							
ROUND ALU 3/8 6061-T6 (20) RAL-38-20 5159 1 X 20'	2.64	20.00 PI_\$CLB	1.00 UN	7.85	0.00	0.000	7.85
HT#68219							
FLAT ALU 2 X 3 1/2 6061-T6 RANDOM NS FAL-2312-V 8260 1 X 12'	50.28	12.00 PI_\$CLB	12.00 PI	14.35	0.00	0.000	172.21
HT#001M170213B							



ACIER OUELLETTE INC.

935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 MU: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 MU: 514-336-4246 Ext.: 866-456-4242

DELIVERY - USINE

CO00038492

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Instruction F-M

Delivery Route 5

Page

4

Customer N°

CL10001056

Date

2017/06/29

Delivery date

2017/07/06

Your order N°

PO36886

Processed by

Eric Kaehfert

Salesman

Carrier

OUELLETTE VALLEYFIELD

Credit Terme

Net 30 Days

Product Description	Weight	Qty	U/M	PCS NB				Internal Use Only			
				CMD	EXP	B/O	IN	I	S	C	OUT
10 ALU SHEET .040 (18G) 6061-T6 (4 X 8) FEAL-040486061 3125 2 X 4' X 8' HT#7114421	36.03	64.00	PI2_\$CLB								
11 ALU SHEET 1/8 6061-T6 (4 X 8) FEAL-18486061 4256 1 X 4' X 8'	56.45	32.00	PI2_\$CLB								
12 ALU SHEET .081 (12G) 2024-T3 (4 X 12) FEAL-0814122024 3192 1 X 4' X 12' BARE HT#300	54.77	48.00	PI2_\$CLB								

NIR : R-109516-6

Next Page...



ACIER OUELLETTE INC.
 935, Boul. du Hâvre
 Salaberry de Valleyfield (Québec) J6S 5L1
 Tél.: 450-377-4248 Int: 514-336-4248 Ext.: 800-667-4248
 Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

DELIVERY - USINE

CO00038492

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
 HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Instruction F-M

Delivery Route 5

Page

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Customer N° CL10001056
 Date 2017/06/29
 Delivery date 2017/07/06
 Your order N° PO36886
 Processed by Eric Kaehlert
 Salesman
 Carrier OUELLETTE VALLEYFIELD
 Credit Terme Net 30 Days

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only			
				CMD	EXP	B/O	IN	I	S	C
13 ROUND SS 3/4 303 (12R) RSS-34303-12 2 x 12'	36.05	24.00	PI_\$CLB							
HT#W4B3 14 SHEET SS 18G SS304-2B (4 X 8) FESS-18G483042B 2 X 4' X 8'	134.40	64.00	PI2_\$CLB							
HT#OL4V 15 SHEET SS 20G SS304-2B (4 X 8) FESS-20G483042B 2 X 4' X 8'	100.48	64.00	PI2_\$CLB							
HT# 222X										

NIR : R-109516-6

Next Page...



GLOBAL VIETNAM ALUMINIUM COMPANY LIMITED

Address: My Xuan B1-Conac industrial zone, My Xuan town, Tan Thanh district,
Ba Ria-Vung Tau province, Viet Nam

Tel: +84(0)643924954

Fax: +84(0)643924953

MILL TEST CERTIFICATE

Date: July 19, 2016

Consignee: :

PO number: P-16298

Customer PO: C72858

Shipping Ref No.: 16-0667

LC No.: DC HMN613447

Date of issue: July 13, 2016

Item Code: 1039500

Die Number: D00112

Alloy & Temper: 6061-T6511

Production Description: STANDARD ALUMINIUM EXTRUSION (BAR)
BAR V836000 3/4"x6" X 240" 6061-T6511 D00112

Length (inch): 240

Bundle number: P-16298-048

Heat Number: SXD160817

Date: 14/07/2016

Applicable Specifications: ASTM B221 STANDARDS

CHEMICAL ANALYSIS: %

R533895

Si	Mg	Fe	Cu	Mn	Cr	Zn	Ti	Al	Other		Remark:
									EACH	TOTAL	
0.637	0.935	0.214	0.250	0.015	0.080	0.006	0.014	98.775	<0.05	<0.15	12/07/2016

MECHANICAL ANALYSIS:

Ult. Strength (ksi)	Yield Strength (ksi)	Elongation % LN 2"	Remark:
46.8	39.5	11.7	12/07/2016

All profiles, each profile with each MTC, showing material shipped match aluminium alloy as per standard, with chemical analysis and mechanical analysis to match aluminium alloy standard.

We hereby certify that the item listed have been checked and tested in accordance with the specifications noted and have been found to meet all the applicable requirements. Certifications are kept on file for 36 months from the date of purchase and are available for review upon request, referring to ASTM and the PO number.



Quality Manager
TRUNG TÂM KIỂM NGHIỆM CÔNG TY
TNHH NHÔM TOÀN CẦU VIỆT NAM
GLOBAL VIETNAM ALUMINIUM
CO., LTD TESTING CENTER

2583

Test de dureté Rockwell Rockwell Hardness Test

Client / Customer : **LES ACIERS TRANSBEC (1997) LTEE.**

Adresse / Address : **4054 BOUL. LE CORBUSIER # 201
LAVAL, QC
H7L5R2**

commande / order # : **7011453**

bon de commande / Purchase order # : **OU-47404**

de matrice / Die # : **MS 16477**

Description : **1 1/2" X 3/4" FLAT BAR**

Alliage & trempage / Alloy & temper : **6061 T6** Longueur / Length : **6097 mm**

Contrôle / Control # : **84119-2**

Coulée / Cast # : **68549**

Dureté Rockwell E /

Rockwell E hardness : **94 HRE**

Min. requis /

Min. required : **88 HRE**

Max. permis /

Max. permitted : **100 HRE**

Composition chimique typique / Typical chemical composition :

	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti
6063	0.28 - 0.60	0.13 - 0.25	0.10 Max	0.10 Max	0.35 - 0.73	0.10 Max	0.05 Max	0.05 Max
6005	0.68 - 0.72	0.15 - 0.27	0.04 - 0.08	0.06 - 0.08	0.48 - 0.52	0.03 Max	0.05 Max	0.03 Max
6005A	0.65 - 0.75	0.15 - 0.27	0.15 Max	0.20 - 0.30	0.45 - 0.55	0.10 Max	0.05 Max	0.05 Max
6061	0.50 - 0.76	0.13 - 0.29	0.15 - 0.28	0.10 Max	0.80 - 1.00	0.04 - 0.14	0.08 Max	0.05 Max
6351	0.7 - 1.3	0.5 Max	0.10 Max	0.40 - 0.80	0.40 - 0.80	—	0.50 Max	0.20 Max

Nous certifions que le matériel fourni rencontre les exigences chimiques telles qu'annoncées par la norme ASTM B-221-14 excepté pour la section 8.2 (nombre de spécimen) .

We hereby certify that the material supplied meets the chemical properties as published by the ASTM B-221-14 except for section 8.2 (number of specimen) .

Sincèrement vôtre,
Yours truly,

date : **2017-03-10**

Daniel Alfredo Pelletier
Directeur Qualité
Quality Director

FA 34112

#2602

MILL TEST

FA 348

BILL TO	CERT CODE: 1	DIE NUMBER S	DATE OF SHIPMENT Sep/29/2016	MANIFEST NO. 197683 - 4 357684
SHIP TO	CUSTOMER PO 100664	ALLOY 6061	TEMPER T6	SALESMAN HOUSE ACCOUNTS
ACIER OUELLETTE	CUSTOMER PART NUMBER DT09604	PART DESCRIPTION 8" X 3/4" FLAT BAR		
SO DESCRIPTION 8" X 3/4" FLAT BAR	CERTIFICATION MILL TEST ASTM B221-14			

Mechanical Properties

Lot	Alloy	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation	Hardness Rockwell F	Conductivity
A.11	6061	Sep/24/2016	44.40	41.60	13.60	90.0, 90.6, 90.3	

Chemical Composition

Cast Number	Lot	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	II	Ga	V	B	Zr	Bi	Pb	Sn	Sr	Co	Al	Other
383822	A.11	6061	0.6	0.2	0.2	0.03	0.87	0.07	0	0.01	0.01	0	0	0	0	0	0	0	0	0	0	0
DAS 9 9.03																						

We certify that the following extrusions have been quality inspected/tested and conforms to required dimensional and temper specifications.



David Natale
Quality Control Manager

#2475

Test de dureté Rockwell Rockwell Hardness Test

Client / Customer : **LES ACIERS TRANSBEC (1997) LTEE.**

Adresse / Address : **4054 BOUL. LE CORBUSIER, #201
LAVAL, QC
H7L5R2**

commande : **6101541**

bon de commande / Purchase order # : **OU-46548**

de matrice / Die # : **MS 15914** Description : **2"X 1" FLAT BAR**

Alliage & trempage / Alloy & temper : **6061 T6** Longueur / Length : **6097 mm**

Contrôle / Control # : **79124-1**

Coulée / Cast # : **67956** DAS

Dureté Rockwell E / 9-69 Min. requis / Max. permis /
Rockwell E hardness : **96 HRE** Min. required : **88 HRE** Max. permitted : **100 HRE**

Composition chimique typique / Typical chemical composition :

	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti
6063	0,20 - 0,60	0,35 Max	0,10 Max	0,10 Max	0,45 - 0,90	0,10 Max	0,10 Max	0,10 Max
6005	0,60 - 0,90	0,35 Max	0,10 Max	0,10 Max	0,40 - 0,60	0,10 Max	0,10 Max	0,10 Max
6005A	0,66 - 0,74	0,14 - 0,28	0,08 - 0,16	0,18 - 0,26	0,46 - 0,54	0,03 Max	0,05 Max	0,05 Max
6061	0,40 - 0,80	0,70 Max	0,15 - 0,40	0,15 Max	0,80 - 1,20	0,04 - 0,35	0,25 Max	0,15 Max
6351	0,7 - 1,3	0,5 Max	0,10 Max	0,40 - 0,80	0,40 - 0,80	—	0,20 Max	0,20 Max

Nous certifions que le matériel fourni rencontre les exigences chimiques telles qu'annoncées par la norme **ASTM B-221-14** excepté pour la section 8.2 (nombre de spécimen) .

We hereby certify that the material supplied meets the chemical properties as published by the ASTM B-221-14 except for section 8.2 (number of specimen) .

Sincèrement vôtre, date : **2016-12-09**
Yours truly,



Gilles Pelletier
Technicien de la qualité
Quality technician

File 12

MILL TEST

#4133

BILL TO

CERT CODE:

DIE NUMBER

DATE OF SHIPMENT

ANIFEST NO

SHIP TO

ACIER QUELLETTE

CUSTOMER PO
104631SALESMAN
HOUSE ACCOUNTS

205157 - 3

370366

SO DESCRIPTION
FLAT 4" X 1"CUSTOMER PART NUMBER
S004657ALLOY
6061
TEMPER
T6
PART DESCRIPTION
FLAT 4" X 1"CERTIFICATION
MILL TEST ASTM B221-14

MADE IN CANADA

Mechanical Properties

Lot	Alloy	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation	Hardness Rockwell F	Conductivity
A.11	6061	May/10/2017	46.20	42.40	14.50	92.0, 92.1, 92.3	

Chemical Composition

Cast Number	Lot	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Sn	Al	Other
385906	A.11	6061	0.61	0.16	0.21	0.03	0.87	0.07	0	0.01	0.01	0	0	0

We certify that the following extrusions have been quality inspected/ tested and conforms to required dimensional and temper specifications.

DAS
14
9.89
17/07/14

T. Mohabir
Quality Control Manager

1 - CUSTOMER COPY

#2535

FHL-16-10

1/CA 1306

48110

MILL TEST

BILL TO	CERT CODE:	DE NUMBER	DATE OF SHIPMENT	MANIFEST NO.
SHIP TO	1	S 4858	Jun/08/2017	206192 - 1
ACIER OUELLETTE	CUSTOMER PO	AGENCY	TELEFON	SALESMAN
	105387 /OU-47828	6061	(76)	HOUSE ACCOUNTS
SO DESCRIPTION	CUSTOMER PART NUMBER	PART DESCRIPTION	CERTIFICATION	
1" X 8" FLAT BAR	DT04658	1" X 8" FLAT BAR	MILL TEST ASTM B221-14	

MADE IN CANADA**372109****Mechanical Properties**

Lot	Alloy	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation	Hardness Rockwell E	Conductivity
A.11	6061	May/26/2017	44.50	40.70	15.80	91.1,91.2,91.3	

Chemical Composition

Cast Number	Lot	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	P	Sb	Y	B	Zr	Bi	Pb	Sn	Sr	Co	Al	Other
36576	A.11	6061	0.563	0.21	0.202	0.0572	0.366	0.0505	0	0.0161	0.023	0	0	0	0	0	0	0	0	0	0	0

DAS
14
9-89
17107/14

We certify that the following extrusions have been quality inspected/tested and conforms to required dimensional and temper specifications.

T. Mohabir

Tulsi Ram Mohabir
Quality Control Manager

1 - CUSTOMER COPY

038492

2436

LES ACHIERS OUELLETTE INC.

BARRE RECT ALUM ECONOPLI 6061 T6511
1.00" X 12.00" X 144.0000"
PART NO.

PO/REF 011-75127

Nous certifions que le document reproduit ici est
une copie conforme du rapport fourni par le
fournisseur du matériel ou les données résultent

Certificate of Mill Test Results

REXIM 1605-11 001

de l'analyse faite par nos laboratoires qualité
SIGNÉ PAR LUCY TRUGLIO

KAISER
ALUMINUM
FABRICATED PRODUCTS

Best in Class

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
5205 KAISER DRIVE
KALAMAZOO, MI 49048

CUSTOMER PO NUMBER: VIM-633551-9		CUSTOMER PART NUMBER: W73/STK		PRODUCT DESCRIPTION: 1.000 X 12.000 PRECISION WIDE BAR		
KAISER ORDER NUMBER: 690509	LINE ITEM: 009	SHIP DATE: 11/20/2015		KAISER LOT NUMBER: Z00014100	ALLOY: 6061	TEMPER: T6511
WEIGHT SHIPPED: 1016.000 LB	QUANTITY: 6.000 PCS	B/L NUMBER: 613952		DIAM/DIAF/THKNS. 1.000	WIDTH: 12.000	LENGTH: 12 000 FT
SHIP TO:				SOLD TO:		

Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CONDUCT.	BEND
Z00014100	0001	1	45.5	41.4	10.0	RE 94	N/A	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Fa	Tot
Maximum	0.30	0.70	0.40	0.15	0.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.10
Maximum	0.40	0.00	0.15	0.00	0.60	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
IG5574	.77	.31	.29	.10	.95	.09	.05	.02	.00	.00	.00	.01	.02

Applicable Requirements:

ASTM-B221-14 STENCILED ASME-SH221 1996 SECT II AMS-QQ A-200/6A UNFAS60051 (T6511 3.0)
conforms to T6-not applicable to other tempers

Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA
MERCURY IS NOT A NORMAL BACKGROUND ELEMENT IN ALUMINUM ALLOYS. NEITHER MERCURY NOR ANY
OF ITS COMPOUNDS ARE UTILIZED BY KAISER ALUMINUM IN THE MANUFACTURE OF THIS MATERIAL.

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that material shipped under this report has been
inspected and tested and found in conformance with applicable specifications forming a part of the
description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that stated in
Kaiser's general terms and conditions of sale. Test reports are on file subject to examination.

Aimee L. Macnowski, Quality & Technology Manager

Aimee L. Macnowski

Plant Serial: 0014141

Order Number: 0014141

Date: 11/20/15

41434
 TRL-117110
 TRD 811

MILL TEST

BILL TO	CERT CODE: 1	DIE NUMBER S 4676	DATE OF SHIPMENT Feb/16/2017	MANIFEST NO. 202525 - 1 365507
SHIP TO	CUSTOMER PO 103226	ALLOY 6061	TEMPER T6	SALESMAN HOUSE ACCOUNTS
ACIER OUELLETTE	CUSTOMER PART NUMBER DT04676	PART DESCRIPTION	MADE IN CANADA	
SO DESCRIPTION	FLAT BAR 1-1/2" X 1-1/4" SQ	FLAT BAR 1-1/2" X 1-1/4" SQ	CERTIFICATION MILL TEST ASTM B221-14	

Mechanical Properties

Lot Alloy 6061
 A.11

Test Date Feb/16/2017

Ultimate Tensile Strength (KSI) 43.40

Yield Strength (KSI) 39.20

Percent Elongation 18.80

Hardness Rockwell F 89.3, 89.4, 89.5

Conductivity

Chemical Composition

Cast Number	Lot	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	P	Ga	V	B	Zr	Bi	Pb	Sn	Sr	Co	Al	Other
17025431A	A.11	6061	0.55	0.17	0.2	0.01	0.8	0.08	0	0.01	0.01	0	0	0	0	0	0	0	0	0	0	0

DAS
 14
 9-89 17/02/14

We certify that the following extrusions have been quality inspected/tested and conforms to required dimensional and temper specifications.

[Signature]

David Natale
 Quality Control Manager

1 - CUSTOMER COPY

CO. 38442

Certificate of Mill Test Results

ACIER QUELLETTE DIV. VALLEYFIELD
 BARRE CARREE ALUMINIUM 6061-T6511
 4.50" X 48.0000"
 PART NO.

PO/Rel AC00007267

Nous certifions que le document reproduit ici est
 une copie conforme du rapport fourni par le
 fournisseur du materiel ou les donnees resultant

de l'analyse faite par un laboratoire qualifie.
 SIGNE PAR:

BI. VIM 514616 001

5Jul17

Pg 1/1

KAISER
ALUMINUM
 FABRICATED PRODUCTS

Best in Class

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

KAISER ALUMINUM
 FABRICATED PRODUCTS, LLC
 5205 KAISER DRIVE
 KALAMAZOO, MI 49048

CUSTOMER PO NUMBER: VIM-641298-2		CUSTOMER PART NUMBER: 328/STK		PRODUCT DESCRIPTION: 4.500 SC 8Q BAR	
KAISER ORDER NUMBER: 6030643	LINE ITEM: 002	SHIP DATE: 05/09/2017	KAISER LOT NUMBER: Z00781015	ALLOY: 6061	TEMPER: T6511
WEIGHT SHIPPED: 1143.000 LB	QUANTITY: 4.000 PCS	B/L NUMBER: 619063	DIAM/DAF/THKNS: WIDTH	LENGTH: 12.000 FT	
SHIP TO:			SOLD TO:		

ml 12/07/10

Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CONDUCT.	BEND
Z0C781015	C001	0001	56.9	53.9	15.6	RE 93	N/A	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
107012	.75	.29	.28	.10	.94	.09	.06	.02	.00	.00	.00	.01	.03

Applicable Requirements:

ASTM-B221-14 STENCILED ASME-SB221 2009 SECT II AMS-QQ-A-200/8A UNS#A96061 (T6511 also conforms to T6-not applicable to other tempers)

Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA

MERCURY IS NOT A NORMAL BACKGROUND ELEMENT IN ALUMINUM ALLOYS. NEITHER MERCURY NOR ANY OF ITS COMPOUNDS ARE UTILITZED BY KAISER ALUMINUM IN THE MANUFACTURE OF THIS MATERIAL.

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Aimee L. Macnowski, Quality & Technology Manager

Aimee L. Macnowski

Plant Serial: 00286030

Kaiser Order Number: 6030643

Line Item: C02

3125

CERTIFIED INSPECTION REPORT

We hereby certify that the material covered by this certificate has been inspected visually, and has been found to meet the applicable requirements of the specification, and that the inspection was performed in accordance with the applicable requirements of the specification and that the inspection was performed in accordance with the applicable requirements of the specification.

By: *[Signature]*
 Title: *[Signature]*
 Date: *[Signature]*

Arcotic

DAVENPORT WORKS 4870 State Street Bettendorf, IA 52722

Ship From: RIVERDALE, IA.

Ship Date: 2017-02-23
 B.I. No.: 0
 Invoice No.: 1000894587-2
 Arcotic No.: 1000894587-2
 P.O. No./Order Contract No.: C 74013 LMB: 2
 Customer: SAMPSONSON & CO LT CO61015419R16
 Arcotic Item: DPE-94587-2

Ship To:

Item Description: 0.04 IN TH (±0.0000 - .0035) X 48.0 IN W (±.125 - .125) X 144.0 IN LN (±.15625 - .15625) CAT D 126862 (N) A/T 6061-16 PLAT SHEET FOR DISTRIBUTORS TOLERANCE GRANTANTED AMS4027 REV N AMS135.2 REV 20.3 EXC NRK ASME-SB-209 REV 15 EXC NRK ASTM309 REV 14 (WARRANTED) PLAT FABR DISCONTINUED MAX GROSS SKID WT: 4750 LB GROSS TOL +/- 25 ± COR D126862 REV 43 CUST REQ 17-03-25 *** W/E 17-04-01 ***

Item	Package Ticket	Lot	Weight	Quantity	UOM	Inspector Clock Numbers
1	299257	487125	2926	118	PC	27279 47435 27887

Notes for COR: D126862.43
 PRODUCT PRODUCED TO THE REQUIREMENTS OF AMS4027 REV N ALSO MEET THE REQUIREMENTS OF AMS-QQ-A-250_11 ORIGINAL REVISION N DATED 1997-08-01.

COR: D126862.43 -Specification Limits

Temp Dir	UTS	TYE	BLAD
Temp Dir	KSI	KSI	PCT
Temp Dir	Max	Max	Max
Temp Dir	Min	Min	Min

Chemical Composition	SI	PS	CU	NI	MO	CR	ZN	TI	Other
Alloy 6061	Max	0.8	0.7	0.40	0.15	1.2	0.35	0.15	0.05
Lot: 487125	Min	0.40	0.15	0.8	0.04	0.25	0.15	0.05	0.15
									REMAIN
Temp Dir	Mo-2	UTS	TYE	BLAD	Other				
Temp Dir	Temp	KSI	KSI	PCT	Aluminum				
Temp Dir	Max	40.6	40.9	12.4					
Temp Dir	Min	40.6	40.9	12.4					

DAVENPORT WORKS 4879 State Street Bellingham WA 98222

21

100% SATISFACTION GUARANTEE

- Mechanical, Physical, Metallurgy, Quantumeter Results (cont.)

~~The material~~ was melted in the United States or a Qualifying Country [HSP DPMs 225.072.1(a)]; it was manufactured in the United States

Ship From: RIVERDALE, IA

DPB-94507-2

Downloaded from <http://ajphaphapublications.org/> on 06/06/2016

3AM0BL SON & CO LT 0041015419R16

2/5

KAISER ALUMINUM

Trentwood Works - Spokane, WA 99215
Phone: (800) 367-2586

CERTIFIED TEST REPORT

Serial Number
4441872

SHIP TO:
SOLD TO:

CUSTOMER PO NUMBER: C73458-3	WORK PACKAGE:	CUSTOMER PART NUMBER:	SHIP RUN/LOAD: 103762/19	GOVT CONTRACT NUMBER:	
KAISER ORDER NO: 1224171-3	SHIP DATE: 1-DEC-2016	ALLOY: 2024	CLAD: BARE	TEMPER: T3	PRODUCT DESCRIPTION: Kaiser Stretched
WEIGHT SHIPPED: 3225 LB	QUANTITY: 58 PCS EST.	TRUCK B/L #: 2063781	GUAGE: 0.0800 IN (2.0320 MM)	DIAMETER/WIDTH: 48.000 IN (1219.2 MM)	LENGTH: 144.000 IN (3657.6 MM)

MHU 2062094: LOT 200838B1: 58 pieces; 01/11/00

DAS
48

Certified Specifications

✓ AMS 4037/RevQ
CMMP 019/RevD

✓ AMS-QQ-A-250/4/RevB
✓ CMMP 025/RevV

✓ ASTM B 209/Rev14

Test Code: 1504

Lot: 200838B1

Cast 300

Drop 98

Test Results

Ingot 2

Melted in USA

(ASTM E8/B557)

(EN 2002-1)

Tensile:	Temper	Dir / # Tests	Ultimate KSI (MPA)	Yield KSI (MPA)	Elongation %
	T3	LT / 2 (Min:Max)	66.0 : 66.6 (455 : 459)	45.6 : 46.1 (314 : 318)	17.0 : 18.1

(ASTM E1251)

Chemistry:	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER
Actual(wt%)	0.08	0.19	4.6	0.58	1.3	0.01	0.10	0.03	0.01	0.00	TOT 0.05

ALLOY LIMITS

	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER	MAX
2024												
MIN(wt%)	0.00	0.00	3.8	0.30	1.2	0.00	0.00	0.00	0.00	0.00	EACH	0.05
MAX(wt%)	0.50	0.50	4.9	0.9	1.8	0.10	0.25	0.15	0.05	0.05	TOT	0.15

Aluminum Remainder

KAISER ALUMINUM

Trentwood Works - Spokane, WA 99215

Phone: (800) 367-2586

CERTIFIED TEST REPORT

Serial Number

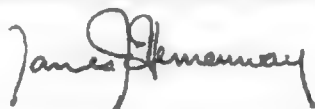
4441872

CERTIFICATION

Kaiser Aluminum, Trentwood Works, is ISO 9001, AS9100, and ISO 14001 certified, and hereby certifies that all material shipped under this order:

- has been inspected, tested, and found to be in conformance with the requirements of the specifications indicated herein.
- All test equipment and measuring devices are calibrated and certified in accordance applicable specifications. For material thicknesses outside specification limits, mechanical properties are as shown herein and chemical composition meets specification requirements. Reported elongation values have been measured as elongation at fracture.
- was melted in the United States of America or a qualifying country per DFARS 225.872-1(a), was manufactured in the United States of America, and meets the requirements of DFARS 252.225 for domestic content.
- has been thermally processed in compliance with AMS 2772, where applicable.
- is mercury free, within the limits of detection of ASTM E1215 (<1ppm).
- is in compliance with RoHS 2, European Union Directive 2011/65/EU.
- is in compliance with European Chemical Agency, ECHA, REACH regulations, (EC) No 1907/2006, and Kaiser regularly monitors these regulations for updates.
- is free of Conflict Minerals, as defined in Section 15.2 of the Dodd-Frank Act.
- is free of weld repair.
- meets the reporting requirements of EN10204, Type 3.1.

Any warranty is limited to that shown on Kaiser Aluminum's standard general terms and conditions of sale. Test reports are on file, subject to examination. Test reports shall not be reproduced except in full, without the written approval of the Kaiser Aluminum laboratory. The recording of false, fictitious or fraudulent statements or entries on the certificate may be punished as a felony under federal law.



JAMES HEMENWAY, TECHNICAL PROCESS MANAGER

#5760

K20-5700

477505



METALLURGICAL TEST REPORT

740 Imperial Road North

Certificate: 107119 5 Mail To:

Customer: 007035 510

Ship To:

North American Stainless Canada Inc
740 Imperial Road North
Guelph, ON N1K1Z3
Canada

Date: 10/22/2015 Page: 1
Steel: 303
Finish: CD

Your Order: 770967

NAS Order: PN 0056401 02

Corrosion:

PRODUCT DESCRIPTION:

Round Bar, Annealed, Cold Draw
ASTM A582/42 EN 10206 3.1, ASTM A484/11
AMS 5640U TYPE 1, Q35-7648 CONDITION A
SOLUTION ANNEAL TEMP 1900F MIN

REMARKS:

COMPLIES W/REQUIREMENTS OF DPM 252.225-7009 EU DIRECTIVE
2011/65/EU ROHS, EAF+AD+CC. NO WELD REPAIR. MELTED AND MFG
IN USA FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION

DAS
14
9-89 17/07/14

Product ID	Skid #	Diameter	Size	Weight	Length	Mark	Pieces	Commodity Code
BH4444 0		7500		1.151	144.00	2	1	71469845

CHEMICAL ANALYSIS

CM(Country of Melt) ES(Spain) US(United States) ZA(South Africa) JP(Japan) Lab Accreditation Bureau, ISO/IEC 17025, Certificate# E2323

Chemical Analysis per ASTM A751/08

HEAT	CM	C %	CO %	CR %	CU %	MN %	NO %	N %	NI %	P %
N433	US	.0473	.1185	17.2850	.3305	1.7960	.2720	.0532	8.3575	.0310
		S %	SI %							
		.3495	.4945							

MECHANICAL PROPERTIES

Product Id	1 d	0.1 MB	2TS	UTS	RA	Yng
	c z	NO.	KSI	KSI	%	% AD
BH4444 0	R L	222.0	82.69	102.54	34.29	23.26

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

Technical
Dept. Mgr.

ABHJEET BHAVE

10/22/2015



North American Stainless Canada Inc.
740 Imperial Road North
Guelph, ON N1K1Z3
Canada

METALLURGICAL TEST REPORT

6870 Highway 42 East
Ghent, KY 41045-9615
(502) 347-6000

Certificate: 253625 2 Mail To:

Ship To:

Date: 1/10/2017 Page: 1

Customer: 007035 021

Steel: 304/304L

Finish: 2B

Corrosion: ASTM A262/15, 180Bend-OK

Your Order: 788462

NAS Order: DS 0011167 01

PRODUCT DESCRIPTION:

STAINLESS STEEL COIL, C.R. ANNEALED & PICKLED, UNS 30400/30403
ASTM A240/15b, A480/15, A666/15; ASME SA240/15, SA480/15, SA666/15
MANUFACTURED IN MALAYSIA

REMARKS:

Mt'l is free of Mercury Contamination. No weld repairs.
EN 10204:2004 3.1/ ROHS 1 & 2 Compliant
Material is free of Radioactive Contamination
Steel Making Process: EAF, AOD, & Cont. Casting
Product Mfg. by a Quality Mgt. Sys. in Cont. w/ISO 9001

Product Id	Supplier Id	Skid #	Thickness	Width	Weight	Length	Mark	Pieces	Commodity Code
110L4V	A00304 63A		.0450	48.0296	24,908	COIL	1	1	74261496

CHEMICAL ANALYSIS CM(Country of Melt) ES(Spain) US(United States) ZA(South Africa) JP(Japan)

DAS	HEAT	Supplier #	CM	C %	CR %	MN %	N %	NI %	P %	S %	SI %
5	0L4V	152R	ES	.0200	18.2000	1.8200	.0800	0.0000	.0200	.0020	.3600

MECHANICAL PROPERTIES

Product Id	Supplier Id	UTS KSI	20C. KSI	YS KSI	20C ELONG % 2"	Hard RB	Tail Hard
110L4V	A00304 63A	97	95.72	48.59	48.00	85.00	86.00

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

Technical
Dept. Mgr.

KRIS LARK

1/11/2017

#5159

Test de dureté Rockwell Rockwell Hardness Test

Client / Customer : **LES ACIERS TRANSBEC (1997) LTEE.**

Adresse / Address : **4054 BOUL. LE CORBUSIER # 201
LAVAL, QC
H7L5R2**

commande # : **6120924**

bon de commande / Purchase order # : **OU - 47030**

de matrice / Die # : **MS 9903**

Description : **3/8" ROD**

Alliage & trempage / Alloy & temper : **6061 T6**

Longueur / Length : **6097 mm**

de contrôle / Control # : **82386-1**

de coulée / Cast # :

68219

Dureté Rockwell E /

Min. requis /

Max. permis /

Rockwell E hardness : **89 HRE**

Min. required : **88 HRE**

Max. permitted : **100 HRE**

Composition chimique typique / Typical chemical composition :

	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti
6063	0.20 - 0.60	0.35 Max	0.10 Max	0.10 Max	0.45 - 0.90	0.10 Max	0.10 Max	0.10 Max
6005	0.60 - 0.90	0.35 Max	0.10 Max	0.10 Max	0.40 - 0.60	0.10 Max	0.10 Max	0.10 Max
6005A	0.66 - 0.74	0.14 - 0.28	0.08 - 0.16	0.18 - 0.26	0.46 - 0.54	0.03 Max	0.05 Max	0.05 Max
6061	0.40 - 0.80	0.70 Max	0.15 - 0.40	0.15 Max	0.80 - 1.20	0.04 - 0.35	0.25 Max	0.15 Max
6351	0.7 - 1.3	0.5 Max	0.10 Max	0.40 - 0.80	0.40 - 0.80	—	0.20 Max	0.20 Max

Nous certifions que le matériel fourni rencontre les exigences chimiques telles qu'annoncées par la norme **ASTM B-221-14** excepté pour la section 8.2 (nombre de spécimen) .

We hereby certify that the material supplied meets the chemical properties as published by the ASTM B-221-14 except for section 8.2 (number of specimen) .

Sincèrement vôtre,
Yours truly,

date : **2017-01-27**



Gilles Pelletier
Technicien de la qualité
Quality technician

ALL
30

ACIER OUELLETTE DIV.-VALLEYFIELD
BARRE RECT. ALUMINUM 6061-T6511
2.00" X 3.50" X 144.0000
PART NO.

PO/Ref AC0000277

Nous certifions que le document reproduit ici est
une copie conforme du rapport fourni par le
fournisseur du matériel ou les données résultant

de l'analyse faite par un laboratoire qualifié.
SIGNÉ PAR:

Certificate of Mill Test Results
BL VIM-514609-001
5Jul17
Pg 1/1



Can Do.

Service Center Metals

5850 Quality Way
Prince George, VA 23875

CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

BILL TO

MANIFEST NUMBER

329106

DIE NUMBER

MRB0481

DATE OF SHIPMENT

4/11/2017

CERTIFICATION

ASTM-B221-M4 StencilCont

SHIP TO

CUSTOMER PO

VIM-640685

ALLOY / TEMPER

6061-T6511

SALES PERSON

D. Schroeder (Canada)

SPECIFICATION

AMS-QQA-200/8 Rev-A

Quantity Certified 6,276 lbs

63 pcs

CUSTOMER PART NUMBER

MRB0481

DESCRIPTION

MCRB 2.000X3.500 A

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. Items produced and certified as 6061-T6511 also meet the requirements of 6061-T6.

Mechanical Properties

Tests	Lot No.	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation
2	201703502	3/4/17	min 50.60	min 47.60	min 15.90
2	201705538	4/6/17	max 51.40	max 48.50	max 19.30
			47.40	43.90	16.30
			49.50	46.20	17.60

Chemical Composition for Aluminum Alloy 6061

Cast #	Lot No.	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Others		Melt Source:
												Each	Total	
001M170213B	201703502	6061	0.77	0.38	0.31	0.13	0.90	0.09	0.02	0.03	97.39	0.05	0.15	United States of America
001M170214B	201703502	6061	0.75	0.39	0.31	0.12	0.89	0.10	0.03	0.03	97.40	0.05	0.15	United States of America
03221702	201705538	6061	0.72	0.40	0.32	0.10	0.84	0.09	0.07	0.02	97.44	0.05	0.15	United States of America
03241706	201705538	6061	0.71	0.39	0.31	0.11	0.86	0.08	0.07	0.02	97.45	0.05	0.15	United States of America

SCM extrusions are manufactured in the USA.

Print Date: 4/11/2017

Calvin J. Wiggins, Director of Quality & Technical Services

NAS
North American Stainless Canada Inc.
740 Imperial Road North
Guelph, ON N1K1Z3
Canada

METALLURGICAL TEST REPORT

6870 Highway 42 East
Chenit, KY 41045-9615
(502) 347-6000

Certificate: 245735 1
Customer: 007035 501

Date: 12/12/2016 Page: 1

Steel: 304

Your Order: 765809

NAS Order: PN 0072898 04

Corrosion: ASTM A262/15 A, 180Bend-OK

PRODUCT DESCRIPTION:

SAFENITE, STEEL COIL, C.N. ANNEALD & PICKLED; UNS 30400
ASTM A240/15b, A480/15, A666/15; ASME SA240/15, SA480/15, SA666/15
CHEM-ONLY OR FOLLOWING ASTM: A276/16, A479/16, A484/15, A313/16
AMS 5513J XCRK; MIL-S-5059D AMEND3 (X CHRON VEHAS)
NACE MR0175/ISO 15156-3:2009 A, ER0103/07/009766D-A X MAG PERM
MIN. SOLUTION ANNEAL TEMP 1900F, WATER QUENCHED

REMARKS:

Mat'l is free of Mercury Contamination. No weld repairs.
EN 10204:2004 3.1.1 ROKS 1 & 2 Compliant
Material is free of Radioactive Contamination
Steel Making Process: EAF, AOD, & Cont. Casting
Product Mfg. by a Quality Mgt. Sys. in Cont. w/ISO 9001
*Killed & Manufactured in the USA; Mat'l is DRAMS Compliant

Product Id	Coil #	Skld #	Thickness	Width	Weight	Length	Mark	Pieces	Commodity Code
04222X A	04222X A		.0160	48.0000	15.850	COIL	14	1	74257403

CHEMICAL ANALYSIS CM(Country of Melt) ES(Spain) US(United States) ZA(South Africa) JP(Japan)

Element	DAS	CM	C %	CR %	CU %	NI %	MO %	N %	NT %	P %	S %
222X	5	US	.0637	18.0080	.3655	1.7640	.2635	.0695	8.0280	.0305	.0010

GT %

.2475

MECHANICAL PROPERTIES

Product Id#	Coil #	1 4	UTS	20C	YS	20C	ELONG	%	Hard	7011	Grain
04222X A	04222X A	7 7	103.42	56.92	47.45	89.50	89.00	10.00			

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

Technical
Dept. Mgt.

KRIS LARK

12/12/2016

#3430

AC3886

FESS-20G 485642R

475741

Abnahmeprüfzeugnis 3.1 (EN 10204) Inspection certificate - mill certificate

Nr.: 85172797

01 / 1

Rev.: 0

Seite / page:

1 von / of 2

Datum / date:

2015 04 17

Zertifiziert nach / certified to ISO 9001, ISO/TS 16949, EN/AS 9100, ISO 14001, NADCAP

	Bestell Nr. / order no.:	C 69654
	Datum / date:	2014 11 27
	Auftragsbest. Nr. / order confirm no.:	685221
	Datum / date:	2014 12 02
	Lieferschein Nr. / delivery note:	85172797
	Datum / date:	2015 04 30

Produkt / product Form / form: Sheet Werkstoff / material: 6061 Zustand / temper: T6 Dim. / dim.: (inch): 0,125x48,00x144,00	Bedingungen / terms Technische Lieferbedingungen / techn. spec.: AMS QQ-A-250/11, 08.1997 ASTM B 209 - 10 AMS 4027M, 07.2008 Cessna CMMP019, Rev. D, 09-07-01 Cessna CMMP025, Rev. V, 2-20-15 Sondervorschrift / special terms:
---	---

AB-Pos ord.-item	BNr/Los/Teillos Lot/No./Part	Guss Nr. cast no.	Werkstoff material	Kollo. packno.	Gewicht netto weight net	Stk. pcs.
10	69100/01/01	01/0068262/5	6061	6852210011	2367,725 lbs	28
10	69100/01/01	01/0068262/5	6061	6852210012	2367,725 lbs	28
10	69100/01/01	01/0068262/5	6061	6852210013	2367,725 lbs	28
10	69100/01/01	01/0068262/5	6061	6852210014	930,335 lbs	11

Chemische Zusammensetzung (1% Gewichtsanteile) / Chemical composition (1% weight proportion (OES))											
Guss Nr. / cast no.	material	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others Each	Others Total
01/0068262/5	6061	0,40	-	0,15	-	0,80	0,04	-	-	-	-
	spec. min.	0,80	0,70	0,40	0,15	1,20	0,35	0,25	0,15	0,05	0,15
	spec. max.	0,71✓	0,41✓	0,22✓	0,14✓	0,97✓	0,17✓	0,11✓	0,04✓	0,02✓	0,04✓
	actual										

Zugprüfung LT / tensile test LT							
BNr/Los Lot/No.	Zustand temper	Richtung direction	Tests	UTS [ksi]	YS [ksi]	A2~ [%]	
			spec.min.	42,0	35,0	10	
			spec.max.	-	-	-	
69100/01	T6	LT	8	from 47,1✓	41,2✓	14✓	
69100/01	T6	LT		to 48,0	42,1	15	

456 13V

0910826
0910827
0910828
0910829

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061T6B0.750x6.00

PO / BATCH NO.: P036886/M137930

DATE: 11.07.11

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 20'
 QUANTITY INSPECTED: 20'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 6.750
 THICKNESS RECEIVED: .748
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y	N	
CORROSION	Y	<input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y	N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y	N	ASTM B221
CORRECT THICKNESS	<input checked="" type="radio"/> Y	N	
PHOTO REQUIRED	Y	<input checked="" type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y	N	52D160317
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y	N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>DAS</u> <u>9</u> 5-89		SIGNED OFF BY: _____	
DATE: <u>11.07.11</u>		DATE: _____	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T661/T6610/T6611/T662 ALUMINUM BAR

SPECIFICATION:

QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/415/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221 .750 V 6.00

PART NUMBER:

M6061T6B T.TTT X WWW.WWW
THICK WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
"WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

3
4.89

REV	DESCRIPTION	DATE
B	REMOVE QQ-A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (ZND D7-1)	09.07.13
A	NEW ISSUE	01.08.08
DESIGN	DS	DATE
DRAWN	DS	DATE
CHECKED	DS	DATE
MFG APPR	DS	DATE
APPROVED	DS	DATE
DE APPR	DS	DATE
DATE	09.07.13	

DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA
DRAWING NO. M6061T6B
REV B
SHEET 1 OF 1
SCALE
NTS

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RELEASED
2009-09-03
MAD

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M1606176 B.750X1.500
 DATE: 17/07/10

PO / BATCH NO.: 36886/137986

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 60'
 QUANTITY INSPECTED: 60'
 QUANTITY REJECTED: _____

THICKNESS ORDERED: .750
 THICKNESS RECEIVED: .750
 SHEET SIZE ORDERED: _____
 SHEET SIZE RECEIVED: _____

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT FINISH	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORROSION	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT GRAIN DIRECTION	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT MATERIAL PER M-DRAWING	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	ASTM - 2.21
CORRECT THICKNESS	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
PHOTO REQUIRED	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT REF # TO LINK CERT	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	HEAT# 68549
CORRECT MATERIAL IDENTIFICATION	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	M1606176 B.750X1.500
CORRECT M# ON THE MATERIAL	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	M137986
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>[Signature]</u> DATE: <u>17/07/10</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION:

QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4154/116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B21

PART NUMBER:

M6061T6B T.TTT X WW.WWW

THICK WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
"WW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

1.50 X 1.500
DAS
9
9.89

RELEASED
2009-05-03
AND

DESIGN	DS	DESCRIPTION	CP	09.07.13
DRAWN	DS	REMOVE QQ-A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (ZN D7-1)	DS	01.06.08
CHECKED	DS			
MFG. APPR.	DS			
APPROVED	DS			
DE APPR.	DS			
DATE	09.07.13			

DART AEROSPACE LTD	
DRAWING NO.	M6061T6B
TITLE	6061-T6 BAR
REV. B	SHEET 1 OF 1
SCALE	NTS

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061T6B0.750x3.00

PO / BATCH NO.: P036886/M137930

DATE: 11-07-11

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 10
 QUANTITY INSPECTED: 10
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .750
 THICKNESS RECEIVED: .747
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y	N	
CORROSION	Y	<input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y	N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y	N	ASTM B221
CORRECT THICKNESS	<input checked="" type="radio"/> Y	N	
PHOTO REQUIRED	Y	<input checked="" type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y	N	3B3822
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y	N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>DAS</u> <u>9</u>		SIGNED OFF BY: _____	
DATE: <u>11-07-11</u>		DATE: _____	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION:

QA-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/415/4116)
OR QA-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

DAS
9
150 x 8.00
9.89

PART NUMBER:

M6061T6B | T.TTT | X | WWW.WWW/
THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
"WWW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

RELEASED
2009-05-03
MD

REV	DESCRIPTION	BY	DATE
B	REMOVE QA-A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (ZND7-1)	CP	09.07.13
A	NEW ISSUE	DS	01.08.08
DESIGN	DS		
DRAWN	DS		
CHECKED	DS		
MFG APPR.	M6061T6B		
APPROVED	TITLE		
DE APPR.	6061-T6 BAR		
DATE	09.07.13		

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REV. B
SHEET 1 OF 1
SCALE
NTS

DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: H6061 T631.00X2.00

PO / BATCH NO.: 9036886 / M137980

DATE: 12.07.11

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 20'
 QUANTITY INSPECTED: 20'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.00"
 THICKNESS RECEIVED: .097"
 SHEET SIZE ORDERED:
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	(N)	
CORRECT FINISH	(Y)	N	
CORROSION	Y	(N)	
CORRECT GRAIN DIRECTION	(Y)	N	
CORRECT MATERIAL PER M-DRAWING	(Y)	N	ASTM B221
CORRECT THICKNESS	(Y)	N	
PHOTO REQUIRED	Y	(N)	
CORRECT REF # TO LINK CERT	(Y)	N	HT# 67956
CORRECT MATERIAL IDENTIFICATION	(Y)	N	
CORRECT M# ON THE MATERIAL	(Y)	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	(N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	(N)	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>DAS</u> <u>9</u> <u>988</u>		SIGNED OFF BY: <u></u>	
DATE: <u>12.07.11</u>		DATE: <u></u>	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6517/T62 ALUMINUM BAR

SPECIFICATION:

QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/415/4116) **DAS**
 OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
 OR ASTM B211 **OR ASTM B221** **1.00 X 2.00** **9**

PART NUMBER:

M6061T6B | T.TTT | X | WWW.WWW | **9-89**
 THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
 "WWW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

RELEASED
 2009-05-03
MD

B REMOVE QQ-A-250/11 OPTION, REFORMAT NOTES, ADD		CP	09 07 13
A ASTM B211/B221 (ZND7-1)		DS	01 06 08
REV NEW ISSUE			
DESIGN	DS	DESCRIPTION	
DRAWN	<i>DS</i>	DART AEROSPACE LTD	
CHECKED	<i>DS</i>	HAWKESBURY, ONTARIO, CANADA	
MFG. APPR.	<i>DS</i>	DRAWING NO.	REV B
APPROVED	<i>DS</i>	M6061T6B	SHEET 1 OF 1
DE APPR.	<i>DS</i>	TITLE	SCALE
DATE	09.07.13	6061-T6 BAR	NTS

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061TL6 B4.50X4.50
 DATE: 12/07/10

PO / BATCH NO.: 36886 / 137980

MATERIAL CERT REC'D: YES
 QUANTITY RECEIVED: 4
 QUANTITY INSPECTED: 4
 QUANTITY REJECTED: _____

THICKNESS ORDERED: 4.50
 THICKNESS RECEIVED: 4.50
 SHEET SIZE ORDERED: _____
 SHEET SIZE RECEIVED: _____

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	(Y) N	
CORROSION	Y (N)	
CORRECT GRAIN DIRECTION	(Y) N	
CORRECT MATERIAL PER M-DRAWING	(Y) N	<u>AB8M-B221-14</u>
CORRECT THICKNESS	(Y) N	
PHOTO REQUIRED	Y (N)	
CORRECT REF # TO LINK CERT	(Y) N	<u>HEAT# 107012</u>
CORRECT MATERIAL IDENTIFICATION	(Y) N	<u>M6061TL6 B4.50 X 4.50</u>
CORRECT M# ON THE MATERIAL	(Y) N	<u>M137980</u>
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW				
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D
SIZE OF TEST SAMPLE				
HARDNESS / DUROMETER READING				

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS</u> <u>9</u> DATE: <u>12/07/10</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

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REF ID: A66555

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061T6B2.00X3.50

PO / BATCH NO.: P036886/M137930

DATE: 12.07.11

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 12'
 QUANTITY INSPECTED: 12'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 2.00
 THICKNESS RECEIVED: 2.02
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="checkbox"/>	
CORRECT FINISH	<input checked="" type="checkbox"/> N	
CORROSION	Y <input checked="" type="checkbox"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/> N	ASTM B221
CORRECT THICKNESS	<input checked="" type="checkbox"/> N	
PHOTO REQUIRED	Y <input checked="" type="checkbox"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> N	HT# 001M170213B
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW				
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D
SIZE OF TEST SAMPLE				
HARDNESS / DUROMETER READING				

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>9-83</u>	SIGNED OFF BY: _____
DATE: <u>12.07.11</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T652 ALUMINUM BAR

SPECIFICATION:

QA-A-225/8 OR AMS-QA-225/8 (OR AMS 4117/4128/4154/116)
OR QA-A-200/8 OR AMS-QA-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER:

M6061T6B | T.TTT | X | WWW.WWW |
THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
"WWW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

2.00 X 3.50

0.15
9
9.89

RELEASED
R 2009-08-03
MAD

8	REMOVE QA-A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (ZN D7-1)	CP	09.07.13
A	NEW ISSUE	DS	01.06.08
REV	DESCRIPTION	BY	DATE
DESIGN	DS		
DRAWN			
CHECKED	AS		
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	09.07.13		

DART AEROSPACE LTD
 HAWKESBURY, ONTARIO, CANADA
 DRAWING NO. M6061T6B
 TITLE 6061-T6 BAR
 REV. B
 SHEET 1 OF 1
 SCALE NTS

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SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER: M6061T6B T.TTT X WWW.WWW
THICK WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
"WWW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

DAS
14
9-89

1.00X4.00

17/67/14

RELEASED
R 2009-08-03
MP

B	REMOVE QQ-A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211B221 (2N D7-1)	CP	09 07 13
A	NEW ISSUE	DS	01 08 08
REV	DESCRIPTION	BY	DATE
DESIGN	DS		
DRAWN			
CHECKED	DS		
MFG. APPR.	DS		
APPROVED	DS		
DE APPR.	DS		
DATE	09.07.13		

DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWING NO.	M6061T6B
TITLE	6061-T6 BAR
SCALE	NTS
REV. B	SHEET 1 OF 1

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: ML64ITL B1-DDX4.00
 DATE: 12/07/14

PO / BATCH NO.: 36886/137980

MATERIAL CERT REC'D: Y
 QUANTITY RECEIVED: 24'
 QUANTITY INSPECTED: 24'
 QUANTITY REJECTED: _____

THICKNESS ORDERED: 1.00
 THICKNESS RECEIVED: 1.00
 SHEET SIZE ORDERED: _____
 SHEET SIZE RECEIVED: _____

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT FINISH	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORROSION	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT GRAIN DIRECTION	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT MATERIAL PER M-DRAWING	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	ASTM B221
CORRECT THICKNESS	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
PHOTO REQUIRED	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT REF # TO LINK CERT	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	HEAT# 3B5906
CORRECT MATERIAL IDENTIFICATION	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	ML64ITL B1-DDX4.00
CORRECT M# ON THE MATERIAL	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	M137980
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>14</u> <u>9-89</u>	SIGNED OFF BY: _____
DATE: <u>12/07/14</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061T6 B1-SD X1.25

PO / BATCH NO: 36886/137986

DATE: 12/07/14

MATERIAL CERT REC'D: Y/N

THICKNESS ORDERED: 1.25

QUANTITY RECEIVED: 12

THICKNESS RECEIVED: 1.25

QUANTITY INSPECTED: 12

SHEET SIZE ORDERED: _____

QUANTITY REJECTED: _____

SHEET SIZE RECEIVED: _____

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <u>N</u>	
CORRECT FINISH	<u>Y</u> N	
CORROSION	Y <u>N</u>	
CORRECT GRAIN DIRECTION	<u>Y</u> N	
CORRECT MATERIAL PER M-DRAWING	<u>Y</u> N	ASTM B221
CORRECT THICKNESS	<u>Y</u> N	
PHOTO REQUIRED	Y <u>N</u>	
CORRECT REF # TO LINK CERT	<u>Y</u> N	4E4T# 17025431A
CORRECT MATERIAL IDENTIFICATION	<u>Y</u> N	M6061T6 B1-SD X1.25
CORRECT M# ON THE MATERIAL	<u>Y</u> N	M137986
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <u>N</u>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <u>N</u>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: _____	SIGNED OFF BY: _____
DATE: _____	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER: M6061T6B | T.TTT | X | WWW.WWW |
THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
"WWW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

DAS

14

9-89

1.25 X 1.50

RELEASED
R 2009-08-03
JWD

B	REMOVE QQ-A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (2ND PR-1)	CP	09.07.13
A	NEW ISSUE	DS	01.06.08
REV	DESCRIPTION	BY	DATE
DESIGN	DS		
DRAWN	g		
CHECKED	AJS		
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	09.07.13		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
DRAWING NO. M6061T6B			
REV. B SHEET 1 OF 1			
TITLE 6061-T6 BAR			
SCALE NTS			
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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M303 R.750
 DATE: 12/02/14

PO / BATCH NO.: 36886/137980

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 24
 QUANTITY INSPECTED: 24
 QUANTITY REJECTED: _____

THICKNESS ORDERED: .750
 THICKNESS RECEIVED: .750
 SHEET SIZE ORDERED: _____
 SHEET SIZE RECEIVED: _____

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="checkbox"/>	
CORRECT FINISH	<input checked="" type="checkbox"/>	N	
CORROSION	Y	<input checked="" type="checkbox"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/>	N	
CORRECT MATERIAL PER M-DRAWING	Y	N	ASTM A582
CORRECT THICKNESS	<input checked="" type="checkbox"/>	N	
PHOTO REQUIRED	Y	<input checked="" type="checkbox"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/>	N	HEAT# 014753
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/>	N	M303 R.750
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/>	N	M137980
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW				
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS</u> <u>14</u> DATE: <u>9-89</u> <u>12/02/14</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 303 SS ROUND BAR
 (NOTE: AISI 304/316 NOT ACCEPTABLE)
 SPECIFICATION: ASTM A582
 PART NUMBER: M303RD.DDD
 D/A.

WHERE "D.DDD" = DIAMETER IN INCHES
 EG. 0.75" ROUND BAR = M303RD.750

750
 DAS
 14
 9-89

RECEIVED
 2000-02-02
 MK

B		REFORMAT DWG. ADD SPECS (2N D6-1).	CP	10.01.05
A		NEW ISSUE	DS	01.12.20
REV	DESCRIPTION	BY	DATE	
DESIGN				
DRAWN				
CHECKED				
MFG. APPR.				
APPROVED				
DE APPR.				
DATE	10.01.05			

DART AEROSPACE LTD		REV. B
DRAWING NO.		SHEET 1 OF 1
TITLE		SCALE
M303R		NTS
303 ROUND BAR		

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M1606176 R.375
 DATE: 17/07/14

PO / BATCH NO.: 3128816/137980

MATERIAL CERT REC'D: 484
 QUANTITY RECEIVED: 126
 QUANTITY INSPECTED: 20
 QUANTITY REJECTED: _____

THICKNESS ORDERED: 1.375
 THICKNESS RECEIVED: .375
 SHEET SIZE ORDERED: _____
 SHEET SIZE RECEIVED: _____

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT FINISH	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORROSION	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT GRAIN DIRECTION	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT MATERIAL PER M-DRAWING	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	ASTM A221
CORRECT THICKNESS	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
PHOTO REQUIRED	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT REF # TO LINK CERT	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	HEATH 6821
CORRECT MATERIAL IDENTIFICATION	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	M1606176 R.375
CORRECT M# ON THE MATERIAL	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	M137980
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>14</u> DATE: <u>17/07/14</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6R0.625 1/762 ALUMINUM ROUND BAR

SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER: M6061T6R0.625

WHERE "D.D.D." = DIAMETER IN INCHES
EG. 5/8" ROUND BAR = M6061T6R0.625

DAS
14
9-89

325

RELEASED
2009-09-09
JAF

B		REFORMAT DNG ADD B211 & B221 SPEC (2N DB-1)		CP	09.07.13
A		NEW ISSUE		DS	01.06.08
REV.	DESCRIPTION		BY	DATE	
DESIGN	DART AEROSPACE LTD				
DRAWN	HAWKESBURY, ONTARIO, CANADA				
CHECKED	DRAWING NO.		REV. B		
MFG. APPR.	M6061T6R		SHEET 1 OF 1		
APPROVED	TITLE		SCALE		
DE APPR.	6061-T6 ROUND BAR		NTS		
DATE	09.07.13		CORPORATE Q 2001 BY DART AEROSPACE LTD		

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M606 T6 B1.00X6.00
 DATE: 17/07/14

PO / BATCH NO: 36886/137980

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 24'
 QUANTITY INSPECTED: 24'
 QUANTITY REJECTED: _____

THICKNESS ORDERED: 1.00
 THICKNESS RECEIVED: 1.00
 SHEET SIZE ORDERED: _____
 SHEET SIZE RECEIVED: _____

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="checkbox"/>	
CORRECT FINISH	<input checked="" type="checkbox"/>	N	
CORROSION	Y	<input checked="" type="checkbox"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/>	N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/>	N	ASTM B221
CORRECT THICKNESS	<input checked="" type="checkbox"/>	N	
PHOTO REQUIRED	Y	<input checked="" type="checkbox"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/>	N	HEAT # 36576
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/>	N	M606 T6 B1.00X6.00
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/>	N	M136980
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW				
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>14</u> DATE: <u>17/07/14</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER: M6061T6B | T.TTT | X | WW.WWW |
THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
"WW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

1.00X6.00

RELEASED
R 2009-05-03

B	REMOVE QQ-A-200/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (EN D7-1)	CP	09 07 13
A	NEW ISSUE	DS	01 08 08
REV	DESCRIPTION	BY	DATE
DESIGN	DS		
DRAWN			
CHECKED	AS		
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	09.07.13		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
DRAWING NO. M6061T6B			
REV. B			
SHEET 1 OF 1			
TITLE 6061-T6 BAR			
SCALE NTS			
DATE 09.07.13			
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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M 2024T35.080

PO / BATCH NO. PO 36886/137980

DATE: 17/07/15

MATERIAL CERT REC'D: yes

QUANTITY RECEIVED: 48

QUANTITY INSPECTED: 48

QUANTITY REJECTED: 0

THICKNESS ORDERED: .080

THICKNESS RECEIVED: 4x12 .079

SHEET SIZE ORDERED: 4x12

SHEET SIZE RECEIVED: 4x12

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y N	
CORROSION	Y <input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y N	
CORRECT MATERIAL	<input checked="" type="radio"/> Y N	2024 T3
CORRECT THICKNESS	<input checked="" type="radio"/> Y N	
PHOTO REQUIRED	Y <input checked="" type="radio"/> N	
CORRECT MATERIAL	<input checked="" type="radio"/> Y N	ASTM B209
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y N	Heat # 300
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y N	M 2024T35.080
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y N	M 137980
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW				
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D
SIZE OF TEST SAMPLE		N	A	
HARDNESS / DUROMETER READING				

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>48</u>	SIGNED OFF BY: _____
DATE: <u>17/07/15</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 2024-T3 ALUMINUM SHEET

SPECIFICATION:

QQ-A-250/4 QR AMS-QQ-A-250/4
OR AMS-483Z
OR ASTM B209

PART NUMBER:

M2024T3S.063
THK

WHERE "XXX" = SHEET THICKNESS (IN INCHES)

EG. 0.063" THICK SHEET = M2024T3S.063

PREFERRED SIZE:

.XXX BY 4FT BY 10FT

RELEASED
R 2009-03-03
JAP

B	REFORMAT DWG. ADD ASTM B209 SPEC (2N DB-1), PAR 09-020A	CP	09 07 07
A	NEW ISSUE	DS	01.09.24
REV.	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	09.07.07		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA		REV. B	
DRAWING NO. M2024T3S		SHEET 1 OF 1	
TITLE		SCALE	
2024-T3 SHEET SPEC		NTS	
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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M60/TC5.040
 DATE: JUL 18 2017

PO / BATCH NO.: P036886/M137980

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 6459F+
 QUANTITY INSPECTED: 6459F+
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .040
 THICKNESS RECEIVED: .045
 SHEET SIZE ORDERED: 4x8
 SHEET SIZE RECEIVED: 4x8

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	(N)	
CORRECT FINISH	(Y)	N	
CORROSION	Y	(N)	
CORRECT GRAIN DIRECTION	(Y)	N	
CORRECT MATERIAL PER M-DRAWING	(Y)	N	ASm B209
CORRECT THICKNESS	(Y)	N	
PHOTO REQUIRED	Y	(N)	
CORRECT REF # TO LINK CERT	(Y)	N	HT # T114421
CORRECT MATERIAL IDENTIFICATION	(Y)	N	
CORRECT M# ON THE MATERIAL	(Y)	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	(N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	(N)	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>DAS</u> <div style="text-align: center; font-weight: bold; font-size: 1.2em;">5</div> DATE: <u>JUL 18 2017</u>	SIGNED OFF BY: _____ DATE: _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T62 ALUMINUM SHEET

SPECIFICATION: QQ-A-250/11 OR AMS-QQ-A-250/11
OR AMS-4026 OR AMS 4027
OR ASTM B209

PART NUMBER: M6061T6S-XXX
THK

WHERE "XXX" = SHEET THICKNESS (IN INCHES)

EG. 0.063" THICK SHEET = M6061T6S.063

PREFERRED SIZE: .XXX BY 4FT BY 8FT

RELEASED
R 2009-08-10

B	REFORMAT DWG. ADD B209 SPEC (ZN D8-1), REF PAR 08-020A	CP	09.07.13
A	NEW ISSUE	DS	01 06 08
REV	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	09.07.13		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
DRAWING NO. M6061T6S			
REV. B SHEET 1 OF 1			
TITLE 6061-T6 SHEET SPEC			
SCALE NTS			
DATE 09.07.13			
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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M304S186A
 DATE: JUL 19 2017

PO / BATCH NO.: PO36886/M137980

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 6458ft
 QUANTITY INSPECTED: 6458ft
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .050
 THICKNESS RECEIVED: .050
 SHEET SIZE ORDERED: 4x8
 SHEET SIZE RECEIVED: 4x8

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="checkbox"/>	
CORRECT FINISH	<input checked="" type="checkbox"/>	N	
CORROSION	Y	<input checked="" type="checkbox"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/>	N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/>	N	Astm A340
CORRECT THICKNESS	<input checked="" type="checkbox"/>	N	
PHOTO REQUIRED	Y	<input checked="" type="checkbox"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/>	N	HA# 064V
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/>	N	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/>	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>5</u> DATE: <u>JUL 19 2017</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 304/316 SS SHEET
ANNEALED

SPECIFICATION:

MIL-S-5059
OR AMS 5513 (304)
OR AMS 5524 (316)
OR ASTM A240
OR ASME SA240

FINISH:

FINISH
UNPOLISHED No. 1
UNPOLISHED No. 2D
UNPOLISHED No. 2B
POLISHED No. 3
POLISHED No. 4
BUFFED No. 6
BUFFED No. 7
BUFFED No. 8

DART M-NUMBER
IDENTIFIER
1P
2D
NONE
3P
4P
6P
7P
8P

PART NUMBER:

M304S TT GA #P
GA

WHERE "TT" = GAUGE THICKNESS
WHERE "#P" = FINISH IDENTIFIER

EG. 16 GAUGE SS SHEET 2B FINISH = M304S16GA
EG. 16 GAUGE SS SHEET No. 4 POLISHED = M304S16GA4P

GAUGE THICKNESS REFERENCE:

GAUGE	NOM. THICK. (IN)	THICKNESS RANGE (IN)
26	0.01875	0.0176 - 0.019
25	0.021875	0.0199 - 0.023
24	0.025	0.024 - 0.026
23	0.028125	0.027 - 0.029
22	0.03125	0.030 - 0.032
21	0.034375	0.033 - 0.035
20	0.0375	0.036 - 0.040
19	0.04375	0.041 - 0.046
18	0.050	0.047 - 0.052
17	0.05625	0.053 - 0.058
16	0.0625	0.059 - 0.065
15	0.0703125	0.066 - 0.072
14	0.078125	0.073 - 0.083
13	0.09375	0.084 - 0.098
12	0.109375	0.099 - 0.114
11	0.125	0.115 - 0.130
10	0.140625	0.131 - 0.145
9	0.15625	0.146 - 0.160
8	0.171875	0.161 - 0.176
7	0.1875	0.182 - 0.194
6	0.2031	0.194 - 0.212
5	0.2188	0.201 - 0.228
4	0.2344	0.225 - 0.243
3	0.2500	0.238 - 0.262
2	0.2656	0.254 - 0.278
1	0.2813	0.269 - 0.293
0	0.3125	0.301 - 0.325

RELEASED

2015 FEB 04

ECN 15-122

D	ADDED GAUGES 0-7.	AJS	15.01.06
C	DEFINED FINISH OPTION (ZN CB) AND EXAMPLE OF MATERIAL FIN WITH FINISH OTHER THAN 2B (ZN BG).	MB	12.09.20
B	REFORMAT DWG. ADD ASTM/ASME SPECS (ZN D8-1), ADD GAUGE REF (CB-1), REF PAR 08-020A	CP	08.06.01
A	NEW ISSUE	DS	01.09.24
REV	DESCRIPTION	BY	DATE
DESIGN	DS		
DRAWN	AJS		
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	15.01.06		

DART AEROSPACE LTD	REV. D
HAWKESBURY, ONTARIO, CANADA	DRAWING NO.
	M304S
	TITLE
	304/316 SS SHEET
	SCALE
	NTS
	SHEET 1 OF 1

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M304S20GA
 DATE: JUL 20 2017

PO / BATCH NO.: P036886/M137980

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 64592+
 QUANTITY INSPECTED: 64592+
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .040
 THICKNESS RECEIVED: .035
 SHEET SIZE ORDERED: 4x8
 SHEET SIZE RECEIVED: 4x8

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="checkbox"/> N	
CORRECT FINISH	<input checked="" type="checkbox"/> Y N	
CORROSION	Y <input checked="" type="checkbox"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> Y N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/> Y N	Astm A240
CORRECT THICKNESS	<input checked="" type="checkbox"/> Y N	
PHOTO REQUIRED	Y <input checked="" type="checkbox"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> Y N	#1 #222X
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> Y N	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> Y N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="checkbox"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="checkbox"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAG 5</u> DATE: <u>JUL 20 2017</u>	SIGNED OFF BY: _____ DATE: _____	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 304/316 SS SHEET
ANNEALED

SPECIFICATION:

MIL-S-5059
OR AMS 5513 (304) **DAS**
OR AMS 5524 (316) **5**
OR ASTM A240
OR ASME SA240

FINISH:

FINISH
UNPOLISHED No. 1
UNPOLISHED No. 2D
UNPOLISHED No. 2B
POLISHED No. 3
POLISHED No. 4
POLISHED No. 6
BUFFED No. 7
BUFFED No. 8

DART M-NUMBER
IDENTIFIER
1P
2D
NONE
3P
4P
6P
7P
8P

PART NUMBER:

M304S TT GA #P

WHERE "TT" = GAUGE THICKNESS
WHERE "#P" = FINISH IDENTIFIER

EG. 16 GAUGE SS SHEET 2B FINISH = M304S16GA
EG. 16 GAUGE SS SHEET No. 4 POLISHED = M304S16GA4P

GAUGE THICKNESS REFERENCE:

GAUGE	NOM. THICK. (IN)	THICKNESS RANGE (IN)
26	0.01875	0.0178 - 0.019
25	0.021875	0.0199 - 0.023
24	0.025	0.024 - 0.026
23	0.028125	0.027 - 0.029
22	0.03125	0.030 - 0.032
21	0.034375	0.033 - 0.035
20	0.0375	0.036 - 0.040
19	0.04375	0.041 - 0.046
18	0.050	0.047 - 0.052
17	0.05625	0.053 - 0.058
16	0.0625	0.059 - 0.065
15	0.0703125	0.066 - 0.072
14	0.078125	0.073 - 0.083
13	0.09375	0.084 - 0.098
12	0.109375	0.099 - 0.114
11	0.125	0.115 - 0.130
10	0.140625	0.131 - 0.145
9	0.15625	0.146 - 0.160
8	0.171875	0.161 - 0.176
7	0.1875	0.182 - 0.194
6	0.2031	0.194 - 0.212
5	0.2188	0.201 - 0.228
4	0.2344	0.225 - 0.243
3	0.2500	0.238 - 0.262
2	0.2656	0.254 - 0.278
1	0.2813	0.269 - 0.293
0	0.3125	0.301 - 0.325

RELEASED

2015 FEB 04

ECN 15-322

D	ADDED GAUGES 0-7.	AJS	15.01.06
C	DEFINED FINISH OPTION (ZN CB) AND EXAMPLE OF MATERIAL FIN WITH FINISH OTHER THAN 2B (ZN B5).	MB	12.08.20
B	REFORMAT DWG. ADD ASTM/ASME SPECS (ZN D6-1), ADD GAUGE REF (CB-1), REF PAR 08-020A	CP	09.06.01
A	NEW ISSUE	DS	01.09.24
REV	DESCRIPTION	BY	DATE
DESIGN	DS		
DRAWN	AJS		
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	15.01.06		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
DRAWING NO. M304S			
REV. D			
SHEET 1 OF 1			
SCALE			
NTS			
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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061H65.125
DATE: JUL 20 2017

PO / BATCH NO.: PO36856/M137980

MATERIAL CERT REC'D: yes
QUANTITY RECEIVED: 3259FT
QUANTITY INSPECTED: 3259FT
QUANTITY REJECTED: 0

THICKNESS ORDERED: .125
THICKNESS RECEIVED: .125
SHEET SIZE ORDERED: 4X8
SHEET SIZE RECEIVED: 4X8

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORROSION	Y <input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y <input type="radio"/> N	ASTM B209
CORRECT THICKNESS	<input checked="" type="radio"/> Y <input type="radio"/> N	
PHOTO REQUIRED	Y <input checked="" type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y <input type="radio"/> N	HT #01/0068262/5
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y <input type="radio"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D	
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>5</u>	SIGNED OFF BY: _____		
DATE: <u>JUL 20 2017</u>	DATE: _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T62 ALUMINUM SHEET

SPECIFICATION: QQ-A-250/11 OR AMS-QQ-A-250/11
OR AMS-4027 OR AMS 4027

PART NUMBER:

DAS
5
M6061T6S1XXX
THK

WHERE ".XXX" = SHEET THICKNESS (IN INCHES)

EG. 0.063" THICK SHEET = M6061T6S.063

PREFERRED SIZE:

.XXX BY 4FT BY 8FT

RELEASED
R 2009-09-10
MAP

B	REFORMAT DWG. ADD B209 SPEC (ZN D8-1).	CP	09.07.13
A	NEW ISSUE	DS	01.05.08
REV.	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	09.07.13		

DART AEROSPACE LTD	REV. B
HAWKESBURY, ONTARIO, CANADA	SHEET 1 OF 1
DRAWING NO. M6061T6S	SCALE
TITLE	6061-T6 SHEET SPEC
NTS	

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Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO36886**

Purchase Order Date 6/29/2017

PO Print Date 6/29/2017

Page Number 1 of 8

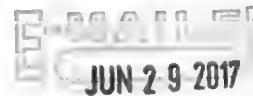
Order From :

VC-CAM002

Ship To : DART AEROSPACE LTD

ACIER OUELLETTE INC.
935 BOUL. DU HAVRE
VALLEYFIELD, QC J6S 5L1
CA

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA



Contact Name

Vendor Phone 800 667 4248

Ship To Contact

Ship To Phone

Ship Via: Yours ppd

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax # 10127-2607

Terms

Net 30

Currency

CAD

FOB

FCA - (Free Carrier)

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	M6061T6B0.750X06.000	6061T6 BAR .750 X 6.00	7/4/2017 Yes 7/4/2017		20.00 f	\$16.49	\$329.86
MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221							
Line Total:							\$329.86
2	M6061T6B0.750X01.500	6061-T6 Bar .750 X 1.50	7/4/2017 Yes 7/4/2017		60.00 f	\$3.46	\$207.32
MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221							
Line Total:							\$207.32

SEP-7-10

Note:

6/29/2017



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO36886**

Purchase Order Date 6/29/2017

PO Print Date 6/29/2017

Page Number 2 of 8

Order From :

VC-CAM002

Ship To : DART AEROSPACE LTD

ACIER OUELLETTE INC.
935 BOUL. DU HAVRE
VALLEYFIELD, QC J6S 5L1
CA

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone 800 667 4248

Ship To Contact

Ship To Phone

Ship Via: Yours ppd

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

10127-2607

Terms

Net 30

Currency

CAD

FOB

FCA - (Free Carrier)

3	M6061T6B0.750X08.000	6061-T6 BAR .750" X 8.00"	7/4/2017	12.00	\$18.40	\$220.85
---	----------------------	---------------------------	----------	-------	---------	----------

Yes

7/4/2017

DAS
9
9-89

f

MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR
ASTM B221

Line Total: \$220.85

4	M6061T6B1.000X02.000	6061-T6 Bar 1.00 x 2.00	7/4/2017	20.00	\$6.14	\$122.86
---	----------------------	-------------------------	----------	-------	--------	----------

Yes

7/4/2017

DAS
9
9-89

f

MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR
ASTM B221

Line Total: \$122.86

5	M6061T6B1.000X04.000	6061-T6 Bar 1.00 x 4.00	7/4/2017	20.00	\$13.77	\$275.47
---	----------------------	-------------------------	----------	-------	---------	----------

Yes

7/4/2017

f

MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR
ASTM B221

Note:

6/29/2017

8817-7-10



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO36886**

Purchase Order Date 6/29/2017

PO Print Date 6/29/2017

Page Number 3 of 8

Order From :

VC-CAM002

ACIER OUELLETTE INC.
935 BOUL. DU HAVRE
VALLEYFIELD, QC J6S 5L1
CA

Ship To : DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone 800 667 4248

Ship To Contact

Ship To Phone

Ship Via: Yours ppd

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

10127-2607

Terms

Net 30

Currency

CAD

FOB

FCA - (Free Carrier)

					Line Total:	\$275.47
6	M6061T6B1.000X06.000	6061T6 BAR 1.00 X 6.00	7/4/2017 Yes 7/4/2017	24.00 f	\$19.38	\$465.23
MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221						
					Line Total:	\$465.23
7	M6061T6B1.000X12.000	6061-T6 Bar 1.00 x 12.00	7/4/2017 Yes 7/4/2017	12.00 f	\$45.86	\$550.37
MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221						
					Line Total:	\$550.37

Note:

6/29/2017



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO36886**

Purchase Order Date 6/29/2017

PO Print Date 6/29/2017

Page Number 4 of 8

Order From :

VC-CAM002

ACIER OUELLETTE INC.
935 BOUL. DU HAVRE
VALLEYFIELD, QC J6S 5L1
CA

Ship To : DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone 800 667 4248

Ship To Contact

Ship To Phone

Ship Via: Yours ppd

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax # 10127-2607

Terms Net 30

Currency CAD

FOB FCA - (Free Carrier)

8	M6061T6B1.500X01.250	6061-T6 Bar 1.50 x 1.25	7/4/2017	12.00	\$6.39	\$76.65
			Yes	f		
			7/4/2017			

MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR
ASTM B221

Line Total: \$76.65

9	M6061T6B4.500X4.500	6061-T6 Aluminum Bar 4.500" X 4.500"	7/4/2017	4.00	\$87.49	\$349.95
			No	f		
			7/4/2017			

MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR
ASTM B221

Line Total: \$349.95

10	M6061T6S.040	6061-T6 .040 Sheet	7/4/2017	64.00	\$7.60	\$486.43
			Yes	sf		
			7/4/2017			

MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM ROUND BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR
ASTM B221

Note:

6/29/2017

2017-7-10



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

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Purchase Order Date 6/29/2017

PO Print Date 6/29/2017

Page Number 5 of 8

Order From :

VC-CAM002

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Chantal Lavoie

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Customer Tax #

10127-2607

Terms

Net 30

Currency

CAD

FOB

FCA - (Free Carrier)

						Line Total:	\$486.43
11	M6061T6S.125	6061-T6 .125 Sheet	7/4/2017 Yes 7/4/2017	32.00 sf	\$6.46	\$206.57	
MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221							
						Line Total:	\$206.57
12	M2024T3S.080	2024-T3 .080 sheet	7/4/2017 Yes 7/4/2017	48.00 sf	\$6.47	\$310.35	
MATERIAL: 2024-T3 ALUMINUM SHEET AS PER QQ-A-250/4 OR AMS-QQ-A-250/4 OR AMS 4037 OR ASTM B209							
						Line Total:	\$310.35

Note:

6/29/2017



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

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Purchase Order Date 6/29/2017

PO Print Date 6/29/2017

Page Number 6 of 8

Order From :

VC-CAM002

ACIER OUELLETTE INC.
935 BOUL. DU HAVRE
VALLEYFIELD, QC J6S 5L1
CA

Ship To : DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
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Ship Via: Yours ppd

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

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Currency

CAD

FOB

FCA - (Free Carrier)

13	M303R0.750	303 Round Bar 0.750	7/4/2017	24.00	\$5.26	\$126.17
			Yes	f		
			7/4/2017			

MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM A582

NOTE: AISI 304/316 NOT ACCEPTABLE

14	M304S18GA	304/316 .050 Sheet	7/4/2017	64.00	\$5.36	\$342.72
			Yes	sf		
			7/4/2017			

PURCHASE MATERIAL: AISI 304/316 SS SHEET
ANNEALED
SPECIFICATION: MIL-S-5059
OR AMS 5513 (304)
OR AMS 5524 (316)
ORASTMA240
OR ASME SA240

Line Total: \$126.17

Line Total: \$342.72

Note:

6/29/2017



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
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PURCHASE ORDER

Purchase Order ID **PO36886**

Purchase Order Date 6/29/2017

PO Print Date 6/29/2017

Page Number 7 of 8

Order From :

ACIER OUELLETTE INC.
935 BOUL. DU HAVRE
VALLEYFIELD, QC J6S 5L1
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VC-CAM002

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CANADA

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Ship To Phone

Ship Via: Yours ppd

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

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Terms Net 30

Currency CAD

FOB FCA (Free Carrier)

15	M304S20GA	304/316 .040 Sheet	7/4/2017 Yes 7/4/2017	64.00 sf	\$3.91	\$250.14
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PURCHASE MATERIAL: AISI 304/316 SS SHEET
ANNEALED
SPECIFICATION: MIL-S-5059
OR AMS 5513 (304)
OR AMS 5524 (316)
ORASTMA240
OR ASME SA240

16	M6061T6R0.375	6061-T6 Round Bar .375"	7/4/2017 Yes 7/4/2017	20.00 f	\$0.39	\$7.85
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MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM ROUND BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR
ASTM B221

Line Total: \$250.14

Line Total: \$7.85

Note:

6/29/2017



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO36886**

Purchase Order Date 6/29/2017

PO Print Date 6/29/2017

Page Number 8 of 8

Order From :

VC-CAM002

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935 BOUL. DU HAVRE
VALLEYFIELD, QC J6S 5L1
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Ship Via: Yours ppd

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

10127-2607

Terms

Net 30

Currency

CAD

FOB

FCA - (Free Carrier)

17	M6061T6B2.000X03.500	6061-T6 Bar 2.00 x 3.50	7/4/2017 Yes 7/4/2017	12.00 f	\$14.35	\$172.21
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MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR
ASTM B221

DAS
9
9-89

Line Total: \$172.21

18	71401-45	PROCUREMENT QUALITY CLAUSES	7/4/2017 No 7/4/2017	1.00	\$0.00	\$0.00
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Procurement Quality Clauses
A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable)
A026 certification of material conformance
A041 quality management system
A042 dart notification by supplier
A043 retention of quality document

Line Total: \$0.00

PO Total: \$4,501.00

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Change Nbr: 1

Change Date: 6/29/2017